

915-005.17

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of

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Ari Hämäläinen

OCT 1 7 LUUZ

Serial No. 10/025,119

Technology Center 2600

Filed: December 19, 2001

Group Art Unit: 2681

2601

For: A METHOD FOR CHANNEL EQUALIZATION, A RECEIVER, A CHANNEL

EQUALIZER, AND A WIRELESS COMMUNICATION DEVICE

Assistant Commissioner for Patents U.S. Patent and Trademark Office Washington, D.C. 20231

REVOCATION OF PRIOR POWER OF ATTORNEY, NEW POWER OF ATTORNEY, AND STATEMENT BY ASSIGNEE UNDER 37 CFR § 3.73(b)

Sir:

Enclosed herewith are the following documents: Power of Attorney or Authorization of Agent, Revocation of Power of Attorney or Authorization of Agent, and a Statement Under 37 CFR 3.73(b) with copy of Assignment attached.

Respectfully submitted,

Francis J. Maguire

Attorney for the Applicant Registration No. 31,391

/mo
October 8, 2002
WARE, FRESSOLA, VAN DER SLUYS
& ADOLPHSON LLP
Bradford Green, Building 5
755 Main Street, PO Box 224
Monroe, Connecticut 06468
(203) 261-1234

I hereby certify that this correspondence is being deposited today with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, U.S. Patent and Trademark Office, Washington, D.C. 20231.

Marilyn O'Connel

9, 2002

Date

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PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035

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# POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/025,119
Filing Date	December 19, 2001
First Named Inventor	Ari Hamalainen
Title	A Method for Channel etc
Group Art Unit	2681
Examiner Name	
Attorney Docket Number	915-005.017

I hereby appoint:					
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Practitioner(	s) named below:		1	Samuel of the same	
	Name			Registration Number	
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I am the:					
Applicant/Inventor.					
X Assignee of record of the entire interest. See 37 CFR 3.71.  Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).					
<u> </u>	SIGNATURE of A	Applicant or Assign	ee of Red	cord	
Name	Mita Centina				anager
Signature	15 a				0
Date	1609.2016	L			
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.					
orms if more than one sign	forms are submitted.			<del></del>	

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## **REVOCATION OF POWER OF ATTORNEY OR AUTHORIZATION OF AGENT**

Application Number	10/025,119	
Filing Date	December 19, 2001	
First Named Inventor	Ari Hamalainen	
Group Art Unit	2681	
Examiner Name		
Attorney Docket Number	915-005.017	

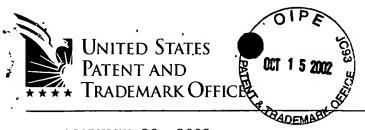
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Applicant/Inventor.													
				rest. See 3 enclosed. (			5)						
SIGNATURE of Applicant or Assignee of Record													
Name Mika Lehlinen, Sonior Engineering Manager													
Signature	2												
Date													
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.													
*Total of	forms	are submit	ted.										

PTO/SB/96 (08-00)
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#### STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Ari Hamalainen		
Application No./Patent No.: 10/025,119  A Method for Channel Equalization Described: and a Wireless Communication Described:	Filed/Issue Date: De on, a Receiver, a Chan vice	cember 19, 2001 nel Equalizer,
Nokia Corporation ,a co		
	Assignee, e.g., corporation, partnership, u	
states that it is:		
1. 🖾 the assignee of the entire right, title, and interest	st; or	RECEIVED
2. an assignee of less than the entire right, title at The extent (by, percentage) of its ownership in	nd interest. terest is%	OCT 1 7 2002
in the patent application/patent identified above by vir	tue of either:	Technology Center 2600
A. [X] An assignment from the inventor(s) of the pater was recorded in the United States Patent and which a copy thereof is attached.	nt application/patent identified Trademark Office at ${\sf Ree}^{0.124}$	l above. The assignment 01, Frame 0537, or for
OR		
B. [ ] A chain of title from the inventor(s), of the pate assignee as shown below:	nt application/patent identified	l above, to the current
1. From:	_To:	
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2. From:	_To:	
The document was recorded in the United Reel, Frame	d States Patent and Trademar	k Office at
3. From:	_To:	
The document was recorded in the United Reel, Frame	d States Patent and Trademar	k Office at
[ ] Additional documents in the chain of title	are listed on a supplemental s	sheet.
[ ] Copies of assignments or other documents in the one [NOTE: A separate copy (i.e., the original assignments be submitted to Assignment Division in accordance of the USPTO. See MPEP	ent document or a true copy or dance with 37 CFR Part 3, if	
The undersigned (whose title is supplied below) is auth	norized to act on behalf of the	assignee.
16.09.2002	Mita Lehti	non
	Typed or pr	inted name
	_ 15 &	
	Senior Engineer	ing Manager
	<u> </u>	<u> </u>



FEBRUARY 20, 2002

PTAS

DARBY & DARBY, P.C. ROBERT C. SULLIVAN, JR. 805 THIRD AVENUE, 27TH FLOOR NEW YORK, NY 10022-7513

Under Secretary of Commerce For Intellectual Property and Director of the United States Patent and Trademark Office Washington, DC 20231 www.uspto.gov



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RECORDATION DATE: 12/19/2001

REEL/FRAME: 012401/0537

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

**ASSIGNOR:** 

HAMALAINEN, ARI

DOC DATE: 10/28/2001

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ASSIGNEE:

NOKIA CORPORATION KEILALAHDENTIE 4

ESPOO, FINLAND FIN-02150

OCT 1 7 2002

Technology Center 2600

SERIAL NUMBER: 10025119

PATENT NUMBER:

FILING DATE: 12/19/2001

ISSUE DATE:

LAZENA MARTIN, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

Form PTO 1595 (Rev. 6-93) PIME No. 0651-C011 (exp. 4/94)	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office Docket No.: 3865/0K109				
To the Honorable Commissioner of Pat 10192	29405ed original documents or copy thereof.				
1. Name of convaying party(ies): Ari HAMALAINEN  Additional name(s) of conveying party(ies) attached? [] Yes [X] No  3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other_  Execution Date: October 28, 2001	2. Name and address of receiving party(ies):  Name: NOKIA CORPORATION  Internal Address:  Street Address: Keilalahdentie 4  City: Espoo State: FINLAND Zip: FIN-02150  Additional name(s) & address(es) attached? [] Yes [X] No				
4. Application number(s) or patent number(s):					
If this document is being filed together with a new application No.(s)  A. Patent Application No.(s)	Date Por CC7 Goel No. 2014 005  I hereby certify that, on the date indicated above, this paper or lee was deposited with the U.S. Postal Service & that it was addressed for delivery to the Assistant Commissioner for Patents, Washington, DC 20231 by "Express Mail ost of the Addressee" service.  Name (Print)				
Name and address of party to whom correspondence concerning document should be mailed:	Total number of applications and patents involved:				
Name: Darby & Darby P.C.					
Internal Address: Robert C. Sullivan, Jr.	7. Total fee (37 CFR 3.41):\$ <u>40.00</u>				
Street Address: 805 Third Avenue, 27th Floor	[X] Enclosed RECEIVED [] Authorized to be charged to posit account				
City: New York State: New York Zip: 10022-7513	8. Deposit account number <b>Technology Center 2600</b> 04-0100  (Attach duplicate copy of this page if paying by deposit account)				
9. Statement and signature. To the best of my knowledge and belief, the foregoing in true copy of the original document.  Marie L. Collazo (44,085) Name of Person Signing  Signature	THIS SPACE  Information is true and correct and any attached copy is a  December 19, 2001  Date				
Total number of pages including cover sheet, attachments, and document:					
Mail documents to be recorded with required cover sheet information to:					

#### **ASSIGNMENT**

I, Ari HÄMÄLÄINEN, a citizen of Finland, residing at Estetie 15 B, FIN-01280 VANTAA, Finland

(hereinafter called "ASSIGNOR") in consideration of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration, receipt of which is hereby acknowledged, paid to me by

### **Nokia Corporation**

a corporation organized under the laws of **Finland**, located at **Keilalahdentie 4**, **FIN-02150 ESPOO**, **Finland**, (hereinafter called the "ASSIGNEE"), do hereby sell and assign to said ASSIGNEE, its successors and assigns, all my right, title and interest, **throughout the world**, **including priority rights**, in and to my invention entitled:

A method for channel equalization, a receiver, a channel equalizer, and a wireless communication device

invented by me, for United States Letters Patent therefor, and all divisions, reissues, continuations and extensions thereof, said interest being **my entire ownership interest** in said Letters Patent when granted, to be held and enjoyed by said ASSIGNEE, its successors, assigns or other legal representatives, to the full end of the term for which said Letters patent may be granted, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal or reissue applications, or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said ASSIGNEE;

And I hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE.

I declare under penalty of perjury under the laws of the United States of America that I have signed this document as my own free act and that all of the foregoing is true and correct.

Ari Hämäläinen

古書を変えているなどは国際にいてもはから、

DATED: 28 October 2001